

APPENDIX "A"

Services by CONSULTANT

- A. The CONSULTANT shall provide the field survey required for preparation of design plans in conformance with the requirements of the "Survey Manual, Location Surveys, Indiana State Highway Commission", a copy of which is on file with the Indiana Department of Transportation and same is incorporated herein by reference and is made a part hereof.
- B. The CONSULTANT shall make a design study, and prepare a Design Study Report. The study and report shall be developed in accordance with the "Procedure Manual For Preparing Design Study and Location/Design Study Reports" and the "Indiana Public Involvement/Public Hearing Procedures" dated January 7, 1985. Copies of these documents are on file with the Indiana Department of Transportation and they are incorporated herein by reference and are made a part hereof. The CONSULTANT shall set up and hold meetings, when needed, in cooperation with the LOCAL PUBLIC AGENCY, with Local Officials, Planning Agencies or Commissions, and Civic Organizations to determine local feelings and to insure proper coordination with the local populace. The cost estimate shall include separate amounts for relocation, moving and land acquisition costs. The CONSULTANT shall include such costs in the report.

- C. The CONSULTANT shall make a location study, a design study, and prepare a Combined Location - Design Study Report. The studies and report shall be developed in accordance with the "Procedure Manual For Preparing Design Study and Location/Design Study Reports" and the "Indiana Public Involvement/Public Hearing Procedures" dated January 7, 1985. Copies of these documents are on file with the Indiana Department of Transportation and they are incorporated herein by reference and are made a part hereof. The CONSULTANT shall set up and hold meetings, when needed, in cooperation with the LOCAL PUBLIC AGENCY, with Local Officials, Planning Agencies or Commissions, and Civic Organizations to determine local feelings and to ensure proper coordination within the local populace. The cost estimates shall include separate amounts for relocation, moving and land acquisition costs. The CONSULTANT shall include such costs in the report.
- D. The CONSULTANT shall develop and document one of the following types of environmental studies:
1. Categorical Exclusion as falling within the guidelines of the National List of Categorical Exclusions.
 2. Environmental Assessment and information, as necessary for the Federal Highway Administration to prepare the Finding of No Significant Impact (FONSI).
 3. Full Environmental Impact Statement.
- Should it become necessary to document a 4(f), Section 106, or 6(f) involvement the CONSULTANT shall provide such service in accordance with the appropriate procedures and requirements.

If the CONSULTANT is required to provide an environmental service not listed above, the work to provide such additional service shall be considered a major change in the scope of work. The environmental services required to develop this project shall be in accordance with the "Procedure Manual For Preparing Environmental Statements" dated 1986 and revisions thereto. A copy of this document is on file with the Indiana Department of Transportation and is incorporated by reference and is made a part hereof.

- E. The CONSULTANT shall prepare preliminary plans and preliminary estimates of cost, which shall be in accordance with the accepted standards for such work and in accordance with the following documents in effect at the time the plans or reports are submitted: American Association of State Highway and Transportation Officials "A Policy on Geometric Design of Highways and Streets", Indiana Department of Transportation's Standard Specifications, Road and Bridge Memoranda and Road and Bridge Design Manuals except as modified by supplemental specifications and special provisions, if any, and shall be completed to the point required to fulfill the requirements for a Combined Location - Design Public Hearing, no further work shall be done on the plans, unless and until specifically directed by the LOCAL PUBLIC AGENCY.

Following approval of the preliminary plans and notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Approval has been received, the CONSULTANT shall prepare contract plans, special provisions for the specifications, and final cost estimates for the construction of the signs, signals, road and bridge. For bridge

structures, the CONSULTANT shall provide the screed elevations. The cost estimate for construction shall be prepared according to the current practices of the Indiana Department of Transportation and shall include all times of work required for the complete construction of the work, including all temporary work necessary in connection therewith, but shall not include the cost of such items of work for which the LOCAL PUBLIC AGENCY, through its own forces or through other party or parties will prepare detail plans. The unit prices to be used shall be in accordance with the methods used by the Indiana Department of Transportation. The CONSULTANT shall make a study of the possible flood hazards that may be encountered on the project in accordance with Volume 6, Chapter 7, Section 3, Subsection 2 of the Federal-Aid Highway Program Manual entitled "Location and Hydraulic Design of Encroachment of Flood Plains". The CONSULTANT shall attend such conferences with the officials of the State and other interested agencies as may be required in connection with the work and to make his services available to the LOCAL PUBLIC AGENCY during the construction of the work for the interpretation of the plans where disagreement may arise and for consultation during construction in the event unforeseen or unusual conditions arise.

The CONSULTANT shall prepare the necessary Right-of-way Plats #3 in conformance to the requirements of "Requirements for Right-of-way Plats", on aerial mosaics furnished by the LOCAL PUBLIC AGENCY.

A copy of the document is on file with the Indiana Department of Transportation and is incorporated by reference, and is made a part hereof. The CONSULTANT shall furnish the following Right-of-way Plans:

1. One (1) set of Chronoflex or Mylar reproductions of R/W Plans.

2. One (1) tracing reproduction marked "Plat #1" for Design Division
3. Five (5) sets of prints of R/W Plans
4. Three (3) sets of prints of the cross-section sheets
5. Right-of-way Plats #3

Prepare right-of-way plans as outlined in Part 9 of Volume II of the Road Design Manual for the Indiana Department of Transportation. The CONSULTANT shall perform all phases of work described in this Agreement necessary to accomplish the complete design of the project on the basis of an Interstate and/or ABC Highway to be constructed in conformity with the policies and standards set forth in Volume 6, Chapter 2, Section 1, Subsection 1, of the Federal-Aid Highway Program Manual and any subsequent revision thereof, and in conformity with the standards adopted by the American Association of State Highway and Transportation Officials and approved by the Secretary of Transportation.

- F. The CONSULTANT shall make or cause to be made a complete roadway geotechnical investigation in accordance with "Requirements for Geotechnical Investigations" dated 1 November 1984. A copy of the document is on file with the Indiana Department of Transportation and same is incorporated herein by reference and is made a part hereof. For bridge structures the CONSULTANT shall make or cause to be made the necessary borings and sub-surface explorations and the analysis thereof in accordance with "General Instructions for Bridge Structure Investigations", dated 1 June 1984, a copy of which is on file with the Indiana Department of Transportation and the document

is incorporated herein by reference and is made a part hereof. Prior to making the borings, the CONSULTANT shall submit boring specifications and boring locations and sketches for each structure for approval of the LOCAL PUBLIC AGENCY. Borings shall extend sufficiently in depth to obtain characteristic data for the proper design of the foundation. The Consultant shall backfill bore hole or cause to be backfilled in accordance with "Aquifer Protection Guidelines" dated December 9, 1987. A copy of the document is on file with the Indiana Department of Transportation, Division of Materials and Tests, Geotechnical section.

G. The CONSULTANT shall make or cause to be made a complete pavement investigation in accordance with "Requirements for Pavement Investigation" dated 26 February 1985. A copy of the document is on file with the Indiana Department of Transportation and it is incorporated herein by reference and is made a part hereof.

H. Upon completion and final Approval of the work by the LOCAL PUBLIC AGENCY, the CONSULTANT shall deliver to the LOCAL PUBLIC AGENCY the following, which shall become the property of the LOCAL PUBLIC AGENCY:
For Road Plans:

1 - Set of final approved tracings of the contract plans drawn to a suitable scale on standard 36" x 23" sheets prepared with the following process: Ink on approved ink medium for all sheets, except cross-sections for computing earthwork quantities. The cross-sections shall be on approved cross-section paper, in ink.

1 - Set (original) of all survey field notes (Transit & Level

Notes, section plats, and sub-division plats for all surveys the CONSULTANT has performed on the project. The field notes are to be in approved Engineer Field Books.

For Bridge Plans:

1 - Set of final approved tracings of the contract plans drawn to a suitable scale on standard 36" x 23" sheets prepared with the following process: Ink on approved ink medium for the Title Sheet, and Summary sheet. All other sheets, except cross-sections for computing earthwork quantities, to be pencil on approved pencil medium. The cross-sections for computing earthwork quantities shall be on approved cross-section paper, in ink.

For Both Road and Bridge Plans:

1 - Set of Special Provisions for the Specifications
1 - Copy of the construction cost estimate
1 - Copy of all design computations, Indexed, Paged and Bound
If an electronic computer is used in making his computations, the CONSULTANT shall furnish the following basic information :

1. Type of Computer
2. Name of Program
 - a. If library program is used, furnish code, title and write-up of the program
 - b. If program is developed by the CONSULTANT, give a detailed write-up (including the name of the method of mathematical and - structural analysis)
3. All listed output data should be titled and described

4. Decimal points in fixed point system should be properly placed.

The CONSULTANT shall deliver to the LOCAL PUBLIC AGENCY the following documents:

<u>Items</u>	<u>Draft Copies For Review</u>	<u>Completed Copies</u>
Combined Location - Design Study Report	5	10
Exhibits for Combined - Design Public Hearing		3
Documentation of National List of Categorical Exclusion	2	10
Environmental Assessment	5	20

Additional general data shall be issued at the mutual agreement of the CONSULTANT and the LOCAL PUBLIC AGENCY.

I. In fulfillment of this Agreement the CONSULTANT shall comply with the requirements of the appropriate regulations and requirements of the Indiana Department of Transportation and Federal Highway Administration.

APPENDIX "B"

Information and Services to be furnished by LOCAL PUBLIC AGENCY

The LOCAL PUBLIC AGENCY shall furnish the CONSULTANT with the following:

1. Transcript of any Public Hearing to be held by the LOCAL PUBLIC AGENCY
2. Criteria for design and details for signs, signals highway and structures such as grades, curves, sight distances, clearance, design loading, etc.
3. Specifications and standard drawings applicable to the project
4. Plans of existing bridge within the project limits
5. All written views pertinent to the location and environmental studies that are received by the LOCAL PUBLIC AGENCY
6. Relocation and land acquisition costs
7. Traffic assignments
8. Available data from the transportation planning process
9. Utility plans available to the LOCAL PUBLIC AGENCY covering utility facilities governing the location of signals and underground conduits throughout the affected areas
10. Guarantee access to enter upon public and private lands as required for the CONSULTANT to perform work under this Agreement.
11. Existing ambient air quality data available from the State and Local Air Pollution Control Agency
12. Existing water quality data
13. Ambient noise measurements and computer noise analyses